

**§ 97.305**

**47 CFR Ch. I (10–1–10 Edition)**

interference to, and must accept interference from, stations authorized by other nations in the fixed and mobile except aeronautical mobile services.

(n) *In the 33 cm band:*

(1) Amateur stations must not cause harmful interference to, and must accept interference from, stations authorized by:

- (i) The United States Government;
- (ii) The FCC in the Location and Monitoring Service; and
- (iii) Other nations in the fixed service.

(2) No amateur station shall transmit from those portions of Texas and New Mexico that are bounded by latitudes 31°41' and 34°30' North and longitudes 104°11' and 107°30' West; or from outside of the United States and its Region 2 insular areas.

(3) No amateur station shall transmit from those portions of Colorado and Wyoming that are bounded by latitudes 39° and 42° North and longitudes 103° and 108° West in the following segments: 902.4–902.6 MHz, 904.3–904.7 MHz, 925.3–925.7 MHz, and 927.3–927.7 MHz.

(o) Amateur stations transmitting in the 23 cm band must not cause harmful interference to, and must accept interference from, stations authorized by:

(1) The United States Government in the aeronautical radionavigation, Earth exploration-satellite (active), or space research (active) services;

(2) The FCC in the aeronautical radionavigation service; and

(3) Other nations in the Earth exploration-satellite (active), radionavigation-satellite (space-to-Earth) (space-to-space), or space research (active) services.

(p) *In the 13 cm band:*

(1) Amateur stations must not cause harmful interference to, and must accept interference from, stations authorized by other nations in fixed and mobile services.

(2) Amateur stations transmitting in the 2305–2310 MHz segment must not cause harmful interference to, and must accept interference from, stations authorized by the FCC in the fixed, mobile except aeronautical mobile, and radiolocation services.

(q) Amateur stations transmitting in the 3.4–3.5 GHz segment must not cause harmful interference to, and must ac-

cept interference from, stations authorized by other nations in the fixed and fixed-satellite (space-to-Earth) services.

(r) *In the 5 cm band:*

(1) Amateur stations transmitting in the 5.650–5.725 GHz segment must not cause harmful interference to, and must accept interference from, stations authorized by other nations in the mobile except aeronautical mobile service.

(2) Amateur stations transmitting in the 5.850–5.925 GHz segment must not cause harmful interference to, and must accept interference from, stations authorized by the FCC and other nations in the fixed-satellite (Earth-to-space) and mobile services and also stations authorized by other nations in the fixed service. In the United States, the use of mobile service is restricted to Dedicated Short Range Communications operating in the Intelligent Transportation System.

(s) Authorization of the 76–77 GHz segment for amateur station transmissions is suspended until such time that the Commission may determine that amateur station transmissions in this segment will not pose a safety threat to vehicle radar systems operating in this segment.

(t) Amateur stations transmitting in the 2.5 mm band must not cause harmful interference to, and must accept interference from, stations authorized by the United States Government, the FCC, or other nations in the fixed, inter-satellite, or mobile services.

NOTE TO § 97.303: The Table of Frequency Allocations contains the complete, unabridged, and legally binding frequency sharing requirements that pertain to the Amateur Radio Service. See 47 CFR 2.104, 2.105, and 2.106. The United States, Puerto Rico, and the U.S. Virgin Islands are in Region 2 and other U.S. insular areas are in either Region 2 or 3; see appendix 1 to part 97.

[75 FR 27203, May 14, 2010]

**§ 97.305 Authorized emission types.**

(a) Except as specified elsewhere in this part, an amateur station may transmit a CW emission on any frequency authorized to the control operator.

(b) A station may transmit a test emission on any frequency authorized to the control operator for brief periods

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for experimental purposes, except that no pulse modulation emission may be transmitted on any frequency where pulse is not specifically authorized and no SS modulation emission may be transmitted on any frequency where SS is not specifically authorized.

(c) A station may transmit the following emission types on the frequencies indicated, as authorized to the control operator, subject to the standards specified in §97.307(f) of this part.

Wavelength band	Frequencies	Emission types authorized	Standards see §97.307(f), paragraph:
MF:			
160 m	Entire band .....	RTTY, data .....	(3).
160 m	Entire band .....	Phone, image .....	(1), (2).
HF:			
80 m	Entire band .....	RTTY, data .....	(3), (9).
75 m	Entire band .....	Phone, image .....	(1), (2).
40 m	7.000–7.100 MHz .....	RTTY, data .....	(3), (9)
40 m	7.075–7.100 MHz .....	Phone, image .....	(1), (2), (9), (11)
40 m	7.100–7.125 MHz .....	RTTY, data .....	(3), (9)
40 m	7.125–7.300 MHz .....	Phone, image .....	(1), (2)
30 m	Entire band .....	RTTY, data .....	(3).
20 m	14.00–14.15 MHz .....	RTTY, data .....	(3).
20 m	14.15–14.35 MHz .....	Phone, image .....	(1), (2).
17 m	18.068–18.110 MHz .....	RTTY, data .....	(3).
17 m	18.110–18.168 MHz .....	Phone, image .....	(1), (2).
15 m	21.0–21.2 MHz .....	RTTY, data .....	(3), (9).
15 m	21.20–21.45 MHz .....	Phone, image .....	(1), (2).
12 m	24.89–24.93 MHz .....	RTTY, data .....	(3).
12 m	24.93–24.99 MHz .....	Phone, image .....	(1), (2).
10 m	28.0–28.3 MHz .....	RTTY, data .....	(4).
10 m	28.3–28.5 MHz .....	Phone, image .....	(1), (2), (10).
10 m	28.5–29.0 MHz .....	Phone, image .....	(1), (2).
10 m	29.0–29.7 MHz .....	Phone, image .....	(2).
VHF:			
6 m	50.1–51.0 MHz .....	MCW, phone, image, RTTY, data .....	(2), (5).
Do	51.0–54.0 MHz .....	MCW, phone, image, RTTY, data, test .....	(2), (5), (8).
2 m	144.1–148.0 MHz .....	MCW, phone, image, RTTY, data, test .....	(2), (5), (8).
1.25 m	219–220 MHz .....	Data .....	(13)
Do	222–225 MHz .....	RTTY, data, test MCW, phone, SS, image .....	(2), (6), (8)
UHF:			
70 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test .....	(6), (8).
33 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
23 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test .....	(7), (8), and (12).
13 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
SHF:			
9 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
5 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
3 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test .....	(7), (8), and (12).
1.2 cm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
EHF:			
6 mm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
4 mm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
2.5 mm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
2 mm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
1mm	Entire band .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).
	Above 275 GHz .....	MCW, phone, image, RTTY, data, SS, test, pulse .....	(7), (8), and (12).

[54 FR 25857, June 20, 1989; 54 FR 39536, Sept. 27, 1989; 55 FR 22013, May 30, 1990, as amended at 55 FR 30457, July 26, 1990; 60 FR 15688, Mar. 27, 1995; 64 FR 51471, Sept. 23, 1999; 71 FR 66465, Nov. 15, 2006; 75 FR 27204, May 14, 2010]

## § 97.307 Emission standards.

(a) No amateur station transmission shall occupy more bandwidth than necessary for the information rate and emission type being transmitted, in accordance with good amateur practice.

(b) Emissions resulting from modulation must be confined to the band or segment available to the control operator. Emissions outside the necessary bandwidth must not cause splatter or keyclick interference to operations on adjacent frequencies.